Message

From: Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5E590CA117F84CC384ADCF13B68B4358-DALTON, JOEL]

Sent: 2/29/2012 2:40:24 PM

To: Morrie Lee [ml90@chrysler.com]

Subject: Re: Two things. **Attachments**: DIB0001

Hi -

Let's chat on the phone today - I'm a bit tied from 1-3 but maybe we can talk after that before end of the day.

In general: favorable on the RSM. Grille shutters - I'll give you a prelim, but we are still going through the official machinations on that. Linc is out sick unexpectedly this week and Byron as well - so let's talk about it; official answer will be a couple of business days.

Joel Dalton US Environmental Protection Agency 734.214.4579

From: Morrie Lee <ml90@chrysler.com>

To: Joel Dalton/AA/USEPA/US@EPA

Date: 02/28/2012 01:40 PM

Subject: Two things.

Thoughts on the following e-mail

And

Any additional word re: the grill shutter guidance (per Linc's comments a couple weeks ago).

Thanks,

Morrie Lee

Manager - Emissions Certification Assurance

Chrysler Group LLC

T/L: 836-5168 Outside Line: (734) 475-5168

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e-mail: ML90@Chrysler.com

From: Morrie Lee

Sent: Friday, February 17, 2012 3:12 PM
To: Joel Dalton (Dalton.Joel@epamail.epa.gov)
Cc: Stephen Healy (healy.stephen@epamail.epa.gov)
Subject: Hood Down and Variable speed fan request

As a follow up to yesterday's meeting, I am requesting approval of hood down and variable speed fan operation for our 14MY LDV 3.0L diesel DF determination, emissions and fuel economy testing.

(b) During dynamometer operation, a **fixed speed cooling fan shall be positioned** so as to direct cooling air to the vehicle in an appropriate manner with the engine compartment cover open. In the case of vehicles with front engine compartments, the fan shall be squarely positioned within 12 inches (30.5 centimeters) of the vehicle. In the case of vehicles with rear engine compartments (or if special designs make the above impractical), the cooling fan shall be placed in a position to provide sufficient air to maintain vehicle cooling. The fan capacity shall normally not exceed 5300 cfm (2.50 m3/sec). However, if the manufacturer can show that during field operation the vehicle receives additional cooling, and that such additional cooling is needed to provide a representative test, the fan capacity may be increased, additional fans used, variable speed fan(s) may be used, and/or the engine compartment cover may be closed, if approved in advance by the Administrator. For example, the hood may be closed to provide adequate air flow to an intercooler through a factory installed hood scoop. Additionally, the Administrator may conduct certification, fuel economy and in-use testing using the additional cooling set-up approved for a specific vehicle.

Here is a snapshot of intradepartment correspondence summarizing the justification.

Figure 1 – 3.0L WK Diesel operation on the chassis dynamometer with fixed speed and variable speed cooling fan

| CONSTANT VEHICLE SPEED DATA | | | | | | |
|---|----------|-------------|----------|---|--------------------|----------------|
| | Hood Clo | sed Road Sr | seed Fan | Hood Open Five | d Speed Fan (8000) | do 'FTP type'i |
| ensule signed | | 47 | 64 | | | |
| per ergager | | | | | | |
| E CONTROL CONTROL | 140 | | 10.0 | | | 10.0 |
| Ineceptual registrate | 3.2 | 22 | 27 | 2.3 | | |
| MARIA CONTROL OF CO. | 21 | | | 20 | - 24 | 12 |
| CAC Temperature | | | | | | |
| Andrea (andrea (Cont.) | 22 | 23 | - 27 | 25 | 22 | 28 |
| | | | | | | |
| Coden encessor 10 | | | | 27 | - 25 | 27 |
| Oliver seedure 10 | 98 | 30 | 88 | 100 | 34 | 34 |
| On the bench with road speed fan, radiator fan does noi turn on | | | | On the bench with fixed speed fan, radiator fan turn on | | |

Please reply with your concurrence or follow-up.

Morrie Lee

Manager - Emissions Certification Assurance

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